

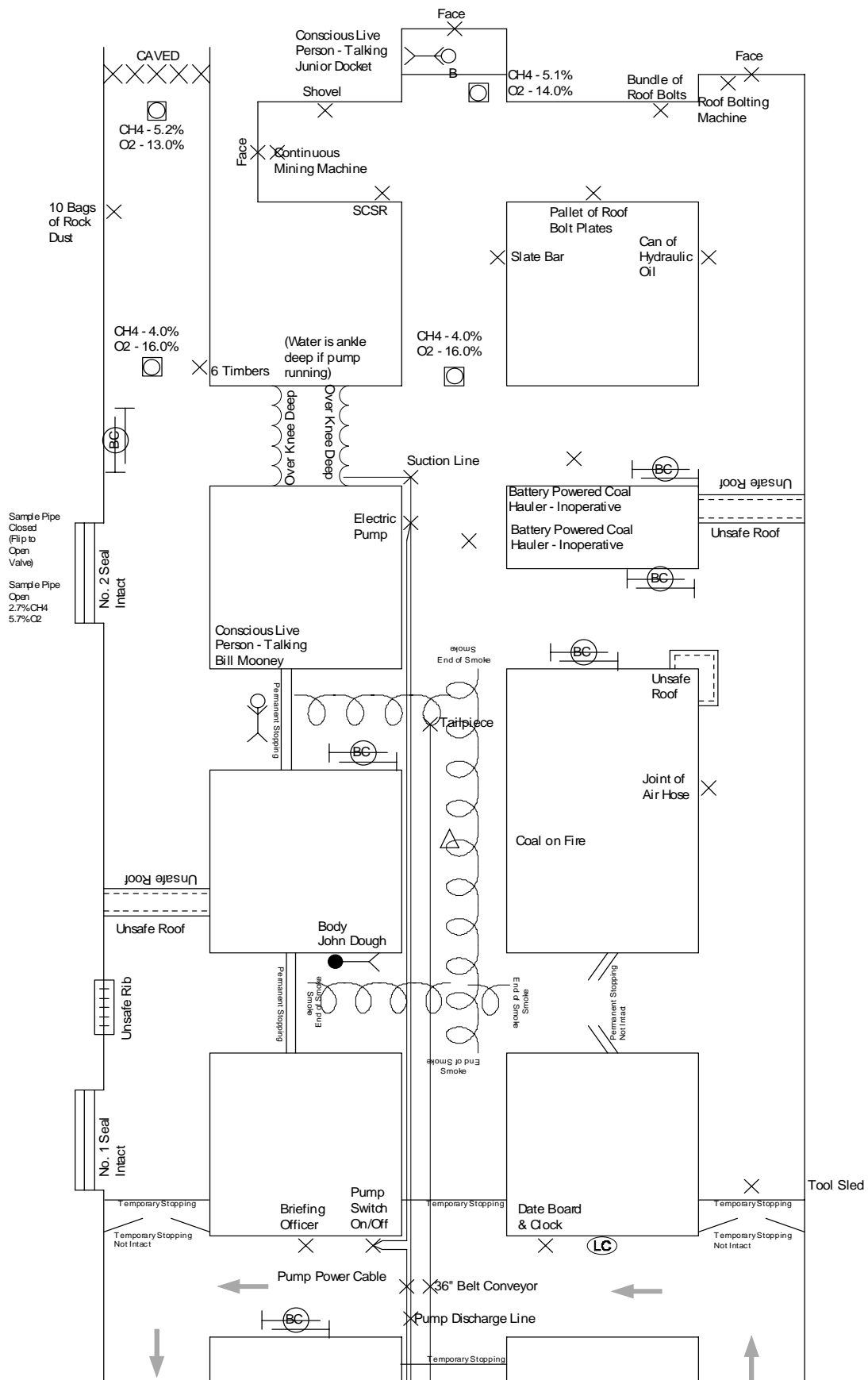
Virginia Mining Association's 2007 Governor's Cup

Mine Rescue Problem

Friday June 1, 2007
Southwest Virginia Community College
Activity Field

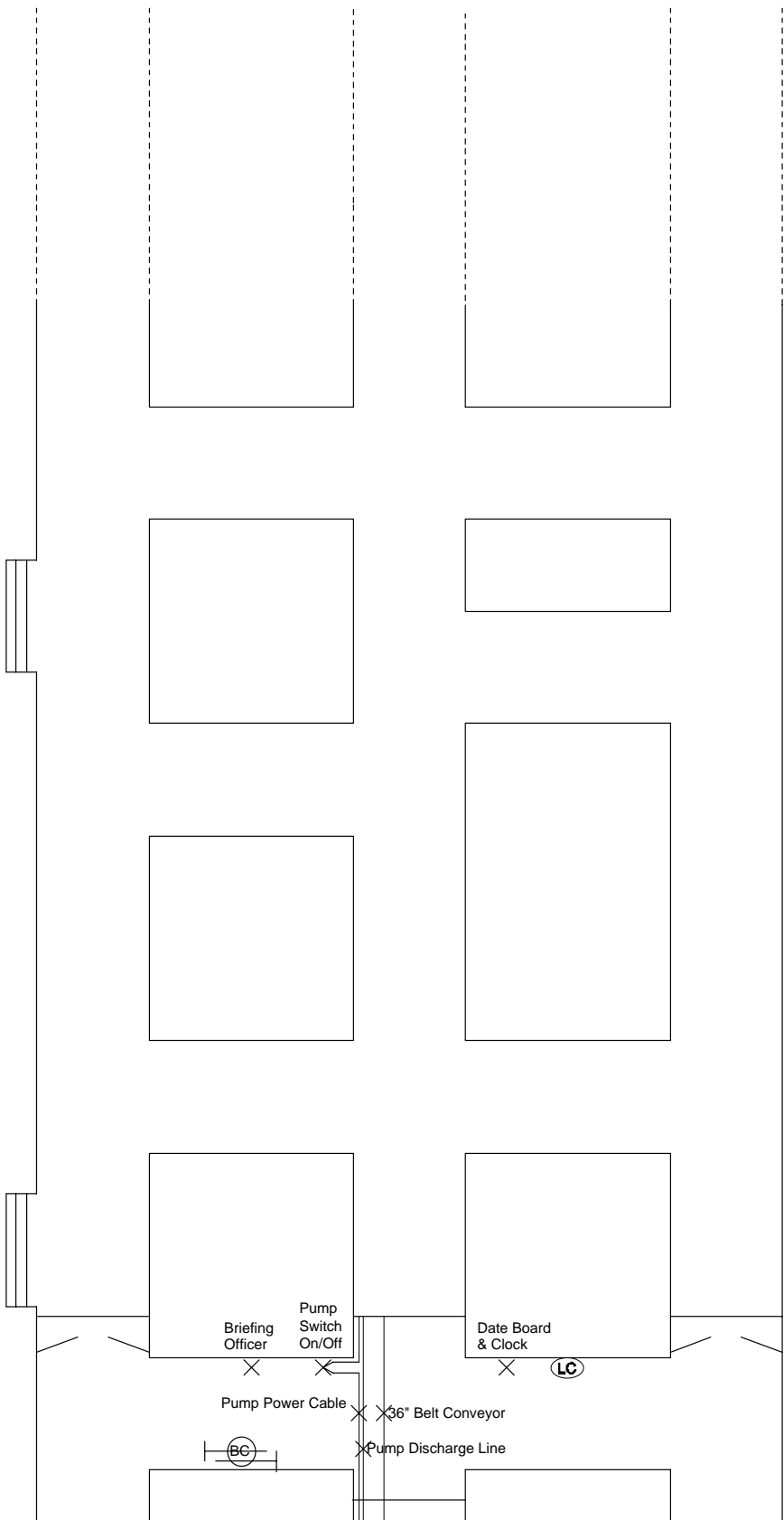
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Problem Map



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Team Map



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Statement

I am _____, Superintendent of the New Branch Coal Company, Valley Mine. You are located underground at the fresh air base on the North Mains Section. This fresh air base was established when conditions were encountered that prevented further exploration without a breathing apparatus.

The North Mains Section is developing parallel to an old abandoned mine. One entry of the abandoned mine is being rehabilitated as the No. 1 Entry return air course for the North Mains Section. Seals are being constructed in crosscuts left off the No. 1 Entry to separate the active workings from the abandoned mine. **(show section and adjacent mine on large map posted at the fresh air base)**

At 6:00 AM this morning, six (6) men entered the mine to produce coal on the North Mains Section. One of the miners returned to the surface reporting that a fire was discovered on the section conveyor belt shortly after the start of the shift. Two men came outside a few minutes later, reporting that a major roof fall had occurred on the section. We have had no further contact from the three remaining miners who were located on the section.

Methane and low oxygen are known to be present in the old abandoned mine. We have encountered water problems on the section and a pump must run continuously to prevent water from accumulating. The pump switch located in the Fresh Air Base (point out) is currently off. Power is supplied to the switch from the surface. The pump can be energized from this switch.

Temporary Stopping's have been erected across all three entries of the section immediately inby the Fresh Air Base. The main fan is operating as a blowing type (positive pressure) system and cannot be stopped or reversed.

Back-up mine rescue teams are standing by on the surface and all required authorities have been notified and are present at the mine. A Command Center has been established on the surface of the mine and will function as the teams contact the surface.

The mine map is not up-to-date.

This is all the information we have at this time.

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Team Instructions

- Account for all missing persons.
- Explore all accessible areas that can be safely examined.
- The briefing officer shall establish communications with the Command Center prior to the entire team going in by the Fresh Air Base.
- Rescue all live persons and bring them to the Fresh Air Base.
- Notify the Command Center of the following:
 - ✓ Identity and location of any missing person;
 - ✓ Location of any explosive gas mixture;
 - ✓ Location of any fire discovered;
 - ✓ Condition of seals encountered along the No. 1 Entry;
 - ✓ Any ventilation changes; and
 - ✓ Any status change of the underground pump

(These items/conditions must be reported before entire team makes a team move after discovery)

- The team shall begin exploration in the No. 1 Entry.
- The team shall comply with any directives they receive from the Command Center throughout the working of the problem.

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Patient No. 1 Note**

“Help! Help! get me out...

My light is out and I can't see.”

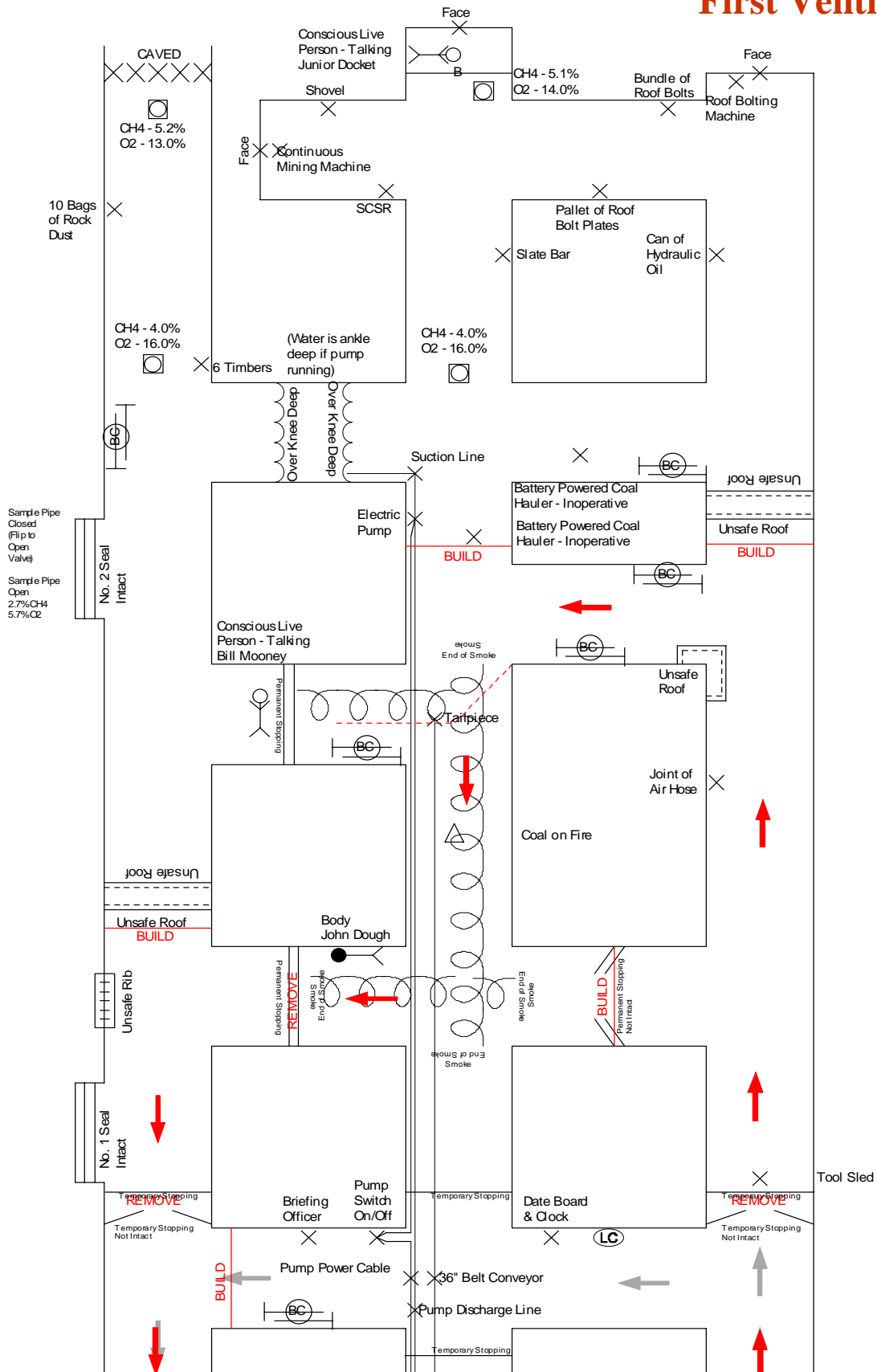
**Governor's Cup
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Patient No. 2 Note**

“Help! Help! get me out...

**The Face, Floor, Roof, and Ribs are solid and
the area is airtight.”**

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First Ventilation

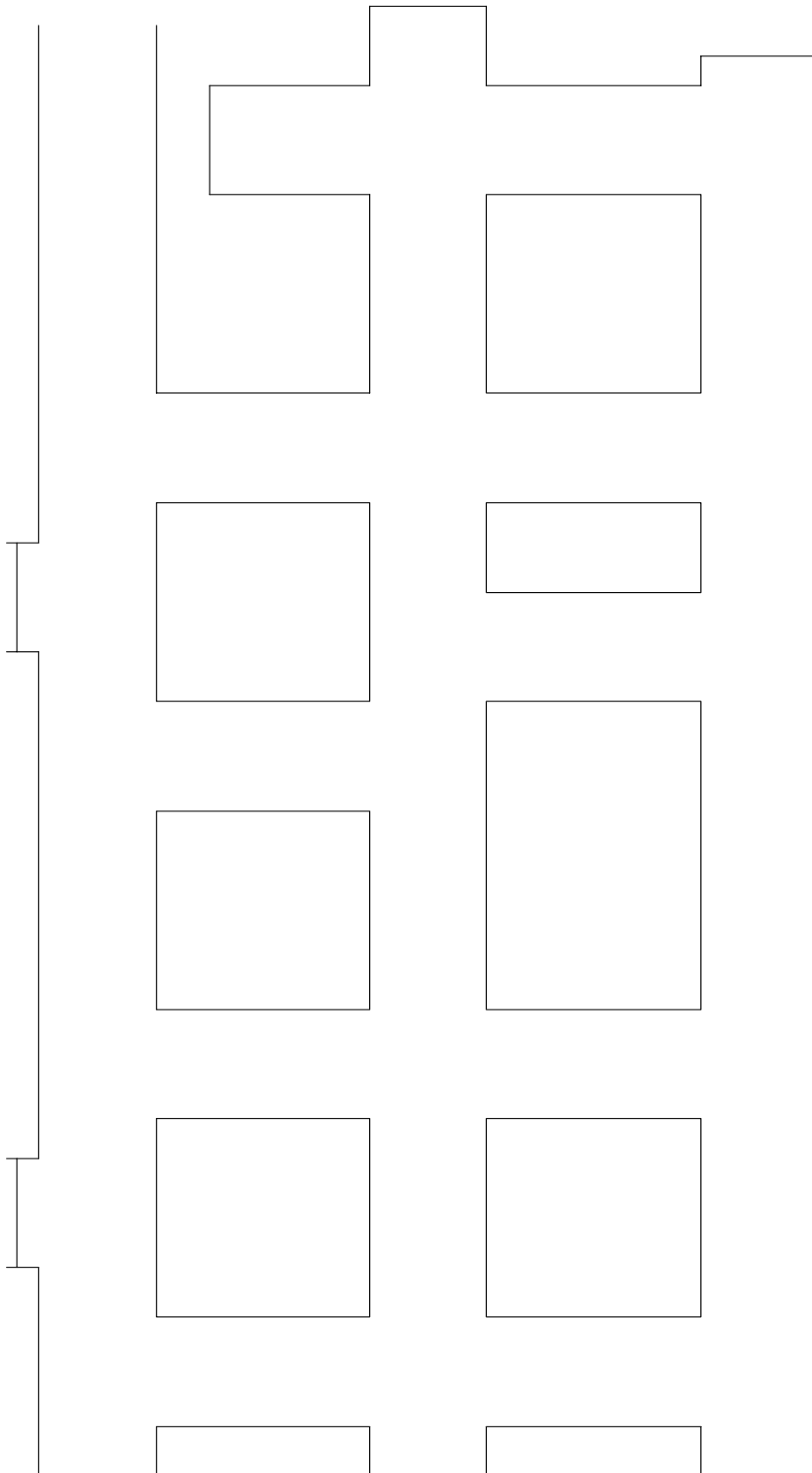


Second Ventilation



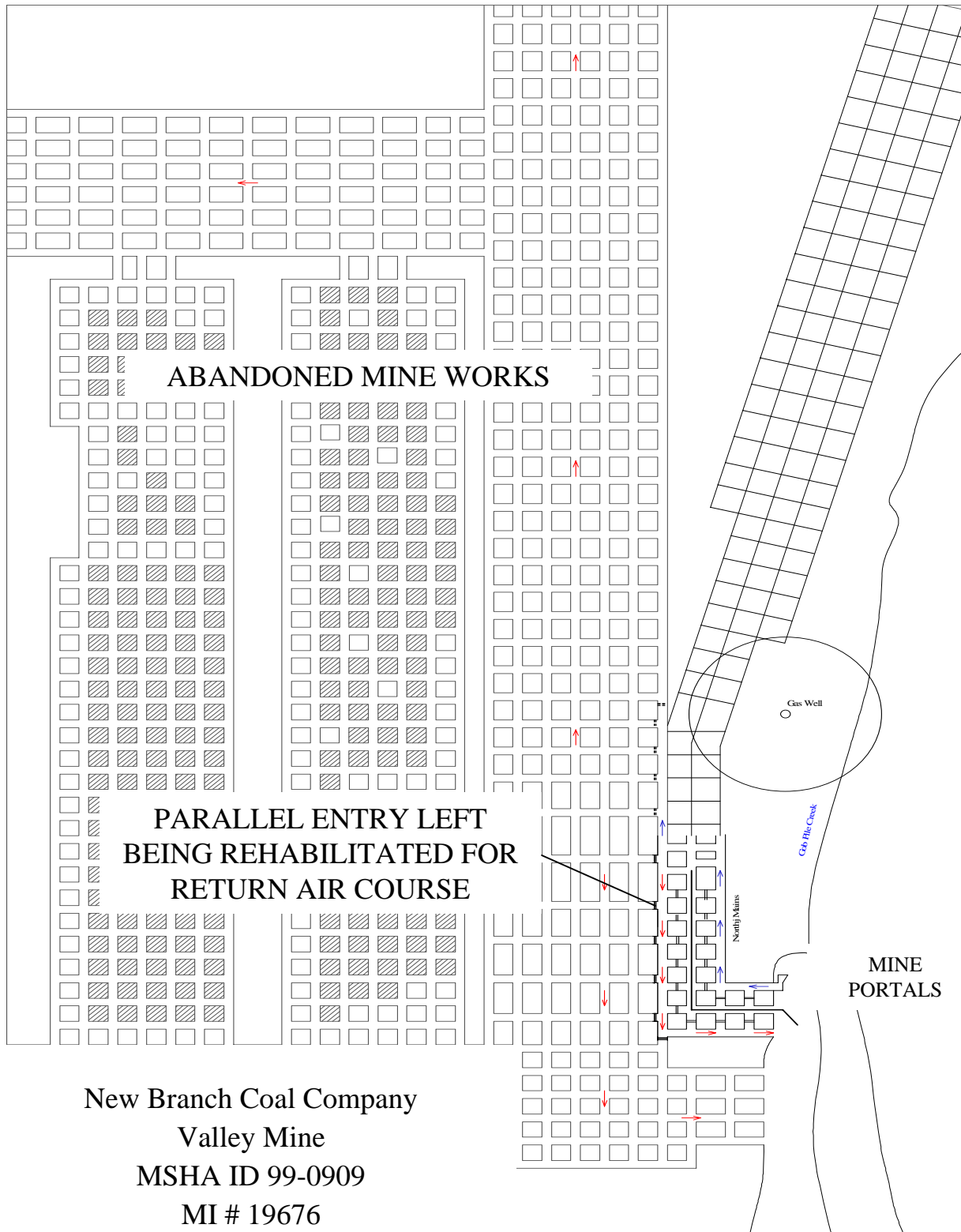
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Blank Map



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Area Mine Map



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General Rules

- **Nails are not to be used on the field. Top boards have been constructed with slots to connect to the up-rights to stabilize the framework. Ventilation curtains have been provided with Velcro Strips. Bottom boards will not be used for temporary stoppings.**
- **Connection of permanent stoppings, temporary stoppings, airlocks, or seals will require connection of all straps. Four (4) straps on top and two (2) on each side must be completed. The lower strap on each side may be left loose for check curtains.**
- **Frames are anchored in place on the field cannot be disassembled. An adequate quantity of building material to work the problem will be provided.**
- **When removing curtain from the frames, each Velcro strap must be disconnected individually. Do not pull on the curtain to disconnect the Velcro strap. This may result in broken straps.**
- **Working time for the problem will be 70 minutes. If teams do not complete problem in time allowed they will be discounted for any unaccounted for people and for any thing that should have been located and mapped.**
- **If weather conditions require judges to alter an airtight build (i.e. loosening the straps, sliding the curtain, etc.) on the field during the working of the problem by the team, a four-inch (4") yellow strip will be attached by the judges to the cross member to indicate to the team that the build is still intact.**